



Validation of forecasts and visualization of cross-sections from high-resolution simulations of atmospheric flow in real-time for wind forecasting

Bolli Pálmason (2), Haraldur Ólafsson (1,2,3), and Guðrún Nína Petersen (2)

(1) Háskóli Íslands (Univ. of Iceland), Reykjavík, Iceland (haraldur68@gmail.com), (2) Veðurstofa Íslands (Icelandic Meteorol. Office) bolli@vedur.is, (3) Bergen School of Meteorology, Geophysical Institute, University of Bergen, Norway

Systematic validation of high-resolution numerical weather forecasts made by several models for Iceland has shown that strong winds are often underestimated, particularly in the highlands. In order to improve the availability of information needed to forecast surface winds and even more to evaluate the uncertainty of the wind forecasts, vertical sections of winds and temperature from a high-resolution numerical forecast over Iceland are now provided on a regular basis on the web (brunnur.vedur.is/kort/spakort). These sections do not only provide a guidance for the wind forecasts, but they also reveal details in the patterns important meteorological features such as orographic disturbances and atmospheric fronts. A study of cases of surface winds being